

D.M.S.—1298—(S.M.P.—12,483—290)

NYASALAND



PROTECTORATE



REPORT OF THE MEDICAL DEPARTMENT FOR THE YEAR 1948

SECTION I. ADMINISTRATION

A. Staff

1. Dr. P. J. Bourke was promoted Senior Medical Officer in July.
2. Dr. L. C. Mayne proceeded on leave, pending retirement, in November.
3. Dr. D. A. Baird acted as Surgical Specialist during the absence on leave of Mr. M. A. W. Roberts.
4. One Medical Officer resigned during the year and one was appointed.
5. Miss P. Hutchinson, Nursing Sister, and later Miss A. Maslin acted during the absence on leave of the Matron, Miss E. G. S. Horne.
6. One Nursing Sister resigned and one sister arrived on first appointment.
7. Mr. I. Macpherson acted during the absence on leave of the Secretary, Mr. N. R. Bartlett.
8. The staff at headquarters was increased by a Clerk/Stenographer.

B. Ordinances etc. enacted during 1948 affecting Public Health

9. (1) An Ordinance relating to inquests, No. 9 of 1948.
(2) An Ordinance to Amend and Consolidate the Law Regarding the Preservation of Public Health, No. 12 of 1948.
(3) An Ordinance to make Provision for the care of Persons who are suffering from Mental Disorder or Mental Defect, for the Custody of their Persons and the Management of their Estates, and for the Management and Control of Mental Hospitals in the Protectorate, No. 14 of 1948.
(4) An Ordinance to Amend the Midwives Ordinance, 1946, No. 36 of 1948.
The constitution of the Midwives' Board was changed by this Ordinance.
(5) Government Notice No. 144. Application of certain provisions of the Public Health Ordinance, 1948.
(6) Government Notice No. 55. Addition of two drugs to the Dangerous Drugs List under the Dangerous Drugs Ordinance Cap. 74.
(7) Government Notice No. 56. Addition of one drug to the Poisons List under the Pharmacy and Poisons Ordinance.
(8) Government Notice No. 4. Appointment to Midwives Board.

C. Financial

10. The total expenditure in 1948, apart from that chargeable to the Colonial Development and Welfare Vote, was £135,528-10s-10d.

Details of expenditure are as follows :—

	£	s	d
Personal emoluments	73,680	17	5
Other Charges	55,594	6	10
Special Expenditure	6,253	6	7
	£135,528	10	10

10a. In addition, the undermentioned expenditure was incurred under grants from the Colonial Development and Welfare Funds.

	£	s	d
Motor Vehicles (Scheme D902 (D))	1,195	0	0
Venereal Disease Campaign (Scheme D505)	3,860	12	0
Health Units etc. (Scheme D. 902(C))	969	3	6
Leprosy Settlement (Scheme D. 902(B))	1,196	14	6
	7,221	10	0

11. The total revenue of the Department, apart from that derived from the sale through Post Offices of anti-malarial drugs, was £4,633-2s-4d as against £5,717-16s-10d in 1947. This was collected under the following heads :—

				1947			1948		
				£	s	d	£	s	d
Hospital fees	...	...	...	3,348	14	5	2,860	2	2
Sale of Stores	...	...	...	1,855	14	3	1,241	11	4
Pathological fees	...	...	...	59	6	6	19	18	6
Radiological fees	...	...	...	95	11	0	135	9	0
Dental fees	...	...	...	334	16	8	314	14	4
Ambulance fees	...	...	...		12	0	28	16	0
Yellow Fever Inoculation fees	...		...	23	2	0	32	11	0
				<hr/> £5,717 16 10			<hr/> £4,633 2 4		

12. Sales of quinine, mepacrine and paludrine at Post Offices were as follows :—

				1947			1948		
				£	s	d	£	s	d
Quinine	...	...	...	828	12	0	1,272	18	8
Mepacrine	...	...	...	597	6	8	409	13	6
Paludrine	...	...	...	—			530	0	0
				<hr/> £1,425 18 8			<hr/> £2,212 12 2		

D. General

13. *Medical Store.* Shortages of some drugs but particularly dressings and rubber gloves were again experienced during the year but on the whole the supply position was easier than in 1947.

Production of Calf Lymph. Owing to the greatly increased demand for calf lymph and the inability of the Pathologist to procure sufficient calves to produce enough lymph it became necessary to import lymph from the United Kingdom for a period of three months. With the co-operation of the Commissioner of Prisons a beginning was made of using the prison farm to rear calves for lymph production and it is hoped to increase the prison herd until it becomes the sole source of supply of calves.

14. *Buildings.* (i) The installation of steam was completed at the African Hospital, Zomba, and there is now steam laundering, cooking and sterilising. The installing of a hot water system was started towards the end of the year.

- (ii) The Dental centre at Zomba was completed and a Dental X-ray machine put into use.
- (iii) A wash-house for the maternity block was completed at Blantyre European Hospital.
- (iv) At Kota Kota the verandah of the surgical ward was rebuilt and a well for the Hospital sunk.
- (v) The construction of a Health Unit at Mwanza was nearing completion at the end of the year.

SECTION II. PUBLIC HEALTH

A. Communicable Diseases

15. *Smallpox.* (i) This disease continued in epidemic proportions throughout the year, the Southern Province and the southern districts of the Central Province being most affected. The type of smallpox was virulent ; 4,830 cases with 606 deaths occurred, giving a case mortality of 12.5%.

(ii) The vaccination campaign was intensified and a special effort was made in the Dedza District, where 1,176 cases occurred, to ensure complete protection of the population and to prevent the spread of the disease to the North. So far this attempt has been successful.

(iii) During the year 1,069,681 persons were reported to have been vaccinated. Of these, 327,424 gave a primary (vaccinal), 122,416 an accelerated (vaccinoid) and 101,187 an immediate (immune) reaction. 518,654 were not seen again after vaccination.

African vaccinators are still not reliable observers of the immune reaction so, if only the primary and accelerated reactions are accepted as confirmed, a total of 449,840 persons were immunised against smallpox.

(iv) The following table gives details, district by district, of the vaccinations reported as performed together with the case incidence of smallpox.

		VACCINATION : REACTIONS				SMALLPOX	
<i>Medical District</i>	<i>Primary</i>	<i>Acceler- ated</i>	<i>Imme- diate</i>	<i>Not seen again</i>	<i>Total</i>	<i>Cases</i>	<i>Deaths</i>
NORTHERN PROVINCE							
Karonga ...	10,485	3,055	8,225	9,037	30,802	2	1
Mzimba ...	46,321	5,339	1,373	189	53,222	43	1
Chinteché ...	5,173	1,847	614	373	8,007	—	—
CENTRAL PROVINCE							
Kasungu ...	3,162	—	1,204	9,323	13,689	39	1
Kota Kota ...	556	585	148	863	2,152	—	—
Fort Manning ...	3,418	3,051	4,345	7,786	18,600	—	—
Dowa ...	22,390	2,519	1,755	4,208	30,872	43	9
Lilongwe ...	10,898	6,172	5,641	29,363	52,074	18	2
Dedza ...	24,098	8,081	4,196	76,288	112,663	1,176	113
Ncheu ...	3,066	4,082	9,328	45,940	62,416	419	45
SOUTHERN PROVINCE							
Fort Johnston ...	—	—	—	16,430	16,430	513	79
Liwonde ...	14,349	3,732	5,798	61,132	85,011	452	61
Zomba ...	30,896	518	17,928	15	49,357	30	5
Chiradzulu ...	26,879	16,716	11,570	8,538	63,703	67	13
Blantyre ...	8,702	—	13,322	169,471	191,495	879	168
Cholo ...	16,322	6,891	4,637	37,608	65,458	357	38
Mlanje ...	43,204	39,931	4,778	17,658	105,571	159	1
Chikwawa ...	37,353	14,186	2,861	5,718	60,118	376	38
Port Herald ...	20,152	5,711	3,464	18,714	48,041	257	31
TOTAL ...	327,424	122,416	101,187	518,654	1,069,681	4,830	606

16. *Malaria*. There were 223 European cases of Malaria of which 114 were admitted to hospital. There was 1 death. African cases numbered 25,127 with 3,340 admissions and 48 deaths. 7 cases of Blackwater Fever were reported during the year all amongst Asiatics. There were 2 deaths.

17. *Trypanosomiasis*. A total of 10 cases of Trypanosomiasis were reported, 8 of which occurred in Kota Kota District, the main focus of this disease.

18. *Relapsing Fever*. 388 cases of Relapsing Fever were reported ; 183 were admitted in hospital and 3 died. The Central and Northern Provinces are responsible for the bulk of the cases. In the Southern Province the cases occurred in Zomba, Blantyre, Cholo and Mlanje Districts which attract labour from the North.

19. *Tuberculosis*. 2 cases of non-pulmonary Tuberculosis were reported amongst Europeans. There were 251 cases of pulmonary and 115 of non-pulmonary amongst non-Europeans. 35 deaths occurred from pulmonary and 9 from non-pulmonary Tuberculosis.

20. *Rabies*. One case of rabies occurred in an African male.

21. *Leprosy*. Mission bodies are almost totally responsible for the treatment of Leprosy and the following table shows the work done at each Settlement :

Settlement.	<i>In settlement beginning of 1948.</i>	<i>Admitted or re-admitted during 1948.</i>	<i>Discharged or paroled during 1948.</i>	<i>Absconded during 1948.</i>	<i>Died during 1948.</i>	<i>In settlement end of 1948.</i>	<i>Daily average settlement.</i>	<i>New out-patients.</i>
Bandawe (Church of Scotland) ...	61	2	18	3	4	38	45	—
Likwenu (Universities Mission to Central Africa) ...	61	23	3	13	5	63	62	64
Loudon (Church of Scotland) ...	26	6	8	6	1	17	20	—
Malamulo (Seventh Day Adventists)	230	12	8	59	1	174	206	—
Mua (White Fathers) ...	209	198	156	—	8	243	218	4
Mwami (Seventh Day Adventists)	54	26	18	8	2	52	46	—
Utale (Marist Fathers) ...	321	240	158	34	7	362	310	—
Total ...	962	507	369	123	28	949	907	68

(ii) The daily average of in-patients at Settlements was 841 in 1947 compared with 907 in 1948. 68 out-patients were treated and in addition 411 cases were treated at Government Hospitals and Rural Dispensaries.

(iii) Standard drugs and dressings used in the treatment of Leprosy and its common complications were provided without charge. Owing to the rising cost of foodstuffs and the increasing number of patients making use of these settlements the grant towards maintaining resident patients was increased from £1,500 in 1947 to £6,998 in 1948. This represents an increase from 1.1/5thd per patient per day in 1947 to 5d per day in 1948.

22. *Venereal Diseases.* (i) The venereal diseases treatment campaign continued with funds from the Colonial Development Vote. Drugs were issued free to all non-Government institutions able to undertake treatment. The following table shows the numbers treated since the inception of the scheme.

		<i>Cases treated at Government Hospitals and Dispensaries</i>			<i>Cases treated at non-Govt. Hospitals and Dispensaries</i>	<i>Total</i>
1945	...	5,671	...	Not known	...	5,671
1946	...	10,011	...	639	...	10,650
1947	...	17,978	...	1,906	...	19,884
1948	...	16,899	...	1,278	...	18,177

(ii) The distribution of the disease during 1948 was as follows :

Syphilis all stages	...	...	...	...	13,088
Gonorrhoea	...	...	...	...	5,054
Other venereal diseases	...	...	...	...	35

23. *Whooping Cough.* The rise in the incidence of Whooping Cough noted in 1947 was not maintained. Cases dropped from 706 to 621 in 1948.

24. *Helminthic Diseases.* 7,197 cases of Ankylostomiasis and 7,566 of Schistosomiasis were reported. This does not reflect the true number of cases treated but only those patients presenting themselves for treatment in whom Helminthiasis was the primary cause of complaint.

B. General Diseases

25. Diseases of the skin and cellular tissues, as usual, account for the greatest number of patients treated for any one group of conditions (79,575, 28% of all patients seen at hospitals against 81,753, 29% in 1947). In this group ulcers, the commonest disabling disease of the country, accounted for most of the cases—43,547. Scabies with 17,549 came second in the group.

26. *Circulatory Diseases.* It is remarkable how few cases of circulatory diseases occur amongst Africans. Only 650 cases are reported, of which 126 had cardiac affections.

C. Hospitals and Dispensaries

27. (i) 2,853 European cases were treated and 634 were admitted to one or other of the European Hospitals at Zomba, Blantyre and Lilongwe. The figures for 1947 were 3,036 and 670.

(ii) Of the 19 African Hospitals in the Protectorate 8 were in the charge of Medical Officers, 6 of Sub-Assistant Surgeons and 5 of Hospital Assistants. These hospitals dealt with 283,145 new cases and of these 28,534 were admitted as in-patients. The figures for 1947 were 277,836 and 27,510.

28. (iii) There are 96 Rural Dispensaries scattered throughout the country and 571,302 new cases were treated compared with 539,092 in 1947. The standard of diagnosis and treatment cannot be considered high as these dispensaries are staffed by Medical Aides, but the work done in treating the common diseases of the country, which Medical Aides are trained to do, is well worth while.

D. Special Service

29. *Surgical Specialist.* The Surgical Specialist, Mr. M. A. W. Roberts, was on leave during half of the year and Dr. D. A. Baird acted during his absence. Major operations amongst the African population at Zomba African Hospital numbered 209 and minor, 828 compared with 239 and 833 in 1947.

374 patients received inhalation anaesthetics, 152 spinal anaesthetics, 205 intravenous anaesthetics and 83 local anaesthetics.

30. The following table shows the work carried out at the Pathological Laboratory under the direction of the Pathologist (Dr. W. J. Shannon).

				1948
Calf Lymph produced	...	...	...	14,195 c.c.
Stool examinations	...	...	...	4,124
Haematological examinations	...	...	...	5,950
Urine examinations (positives only)	...	...	...	922
Biochemical examinations	...	...	...	105
Serological examinations	...	...	...	4,552
Bacteriological examinations...	...	...	...	239
Smear examinations	...	...	...	501
Histological examinations	...	...	...	185
Post Mortems	...	...	...	44
Medico legal examinations	...	...	...	120

31. *Dental Officer.* The Dental Officer (Mr. S. F. Fawcett) proceeded on leave in June and it was not until September that a locum tenens was obtained. 457 Europeans, 78 Asiatics and 1,783 Africans were treated during the year compared with 447, 34 and 1,571 in 1947. The new well-equipped dental surgery near the European Hospital, Zomba, was occupied in March. There are two surgeries with a common workshop and X-ray machine. African patients are treated by an African assistant in one of the surgeries thus enabling the Dental Officer to oversee all work under one roof. The training of African staff continued until the Dental Officer proceeded on leave. Two visits of about three weeks each were made to Lilongwe where conservative treatment and extractions were carried out.

32. *School Inspections.* The children and premises of the three European schools in Blantyre, Limbe and Zomba were examined by Medical Officers during the year. Advice on the health of the children, the accommodation provided and the hygienic condition of the schools were submitted to the Director of Education for transmission to the schools. The health of the children was satisfactory.

E. Maternity and Child Welfare

33. Financial assistance is given by Government to each Maternity and Child Welfare Clinic run by Missions provided it is under the control of a Nursing Sister and has a medical practitioner in supervisory charge. The following table shows the work done at recognised centres submitting returns :

<i>Centres</i>			<i>Antenatal clinic (new cases)</i>	<i>Infant Welfare clinic (new cases)</i>	<i>Confinements</i>		
Church of England	...	...	644	...	409	...	396
Church of Scotland	...	...	1,456	...	2,991	...	1,987
Dutch Reformed Church	...	...	1,335	...	642	...	1,318
White Fathers	...	...	1,906	...	1,817	...	1,379
Seventh Day Adventists	...	...	415	...	48	...	398
Government	...	...	1,864	...	852	...	1,267
TOTAL			7,620	...	6,759	...	6,745
TOTAL FOR 1947			6,273	...	5,077	...	5,739

F. Training of African Personnel

34. The training of Hospital Assistants, Medical Aides, Midwives and Nurses continued as usual at the training school, Zomba. The reorganisation of training in respect of Hospital Assistants and Medical Aides carried out in 1947 is proving successful.

35. *Hospital Assistants.* It has been proved practically that the educational difference between Standard VI and Standard VIII men is not reflected in the final result of medical training. Standard VI men compete successfully with the Standard VIII ones when the purpose of training is to turn out a well-informed Hospital Assistant with practical ability and it would appear that, in medical work at least, a more advanced type of training must await the advent of Standard X scholars.

36. Six Hospital Assistants passed out during the year, two of them after being referred for an additional six months of training. At the end of the year there were six Hospital Assistants in training.

37. *Medical Aides.* Thirteen medical aides completed their two years' course during the year. At the end of the year there were 14 men in the 1st year of training and 10 in the 2nd year.

38. The third and final refresher course for ex-army nursing orderlies was completed in February when 8 were accepted for employment.

39. *Midwives.* In addition to the Government Training Centre for Midwives there are several Mission ones. The syllabus of training and the length of the course (2 years) is the same at all centres.

40. Four Midwives qualified from the Government centre during the year and there were 6 women in the 1st year of training and 8 in the 2nd year on 31st December.

41. 3 Mission trained Midwives qualified during the year.

42. Before 1948 there was no registration of European Midwives. During the year it was introduced and 43, registered. The majority of the ladies who registered are not practising actively.

43. *Sanitary Assistants.* Owing to lack of European Staff it has not been possible to reintroduce the one year course of training for Sanitary Assistants. Two courses of six months each were completed and 13 out of 20 trainees passed. Two refresher courses were also conducted. These are very necessary because of the short initial training Sanitary Assistants receive. The Senior Health Inspector, Zomba, carried out all the training. He also held a course of practical sanitation and hygiene at the Jeanes Training Centre.

44. At Lilongwe the Health Inspector conducted a short course of training for sanitary capitaos employed by the Native Authorities. Of 11 candidates, 9 were approved after examination.

G. Migrant Labour

45. Sick repatriates examined totalled 271. The more important causes of repatriation were as follows :—

Mental Conditions	...	...	...	...	24
Hemiplegia	...	...	...	...	8
Blindness	...	...	...	...	13
Leprosy	...	...	...	...	9
Destitution	...	...	...	...	60
Fractures	...	...	...	...	16
Senility	...	...	...	...	21
Pulmonary T.B.	...	...	...	...	20
Silicosis	...	...	...	...	13

SECTION III. VITAL STATISTICS

46. The following tables show sick, invaliding and death rates for European and African officials during 1948, together with the corresponding figures for 1947 :

A. European Officials

	1947	1948
Total number of European Officials resident ...	340	397
Average number resident ...	267.6	301.6
Total number on sick list ...	149	128
Total number of days on sick list ...	1,630	1,571
Average daily number on sick list ...	4.47	4.29
Percentage of sick to average number resident	1.31	1.42
Average number of days on sick list for each patient ...	10.94	12.27
Average sick time to each resident ...	6.09	3.96
Total number invalided ...	Nil	Nil
Percentage of invalidings to total resident	Nil	Nil
Total number of deaths ...	3	1
Percentage of deaths to total resident	1.12	.25

Death : Coronary Thrombosis

B. African Officials

	1947	1948
Total number of African officials resident ...	4,704	5,422
Average number resident ...	3,978	5,001
Total number on sick list ...	732	637
Total number of days on sick list ...	6,360	5,941
Average daily number on sick list ...	17.42	16.2
Percentage of sick to average number resident	0.37	0.32
Average number of days on sick list for each patient ...	8.69	9.3
Average sick time to each resident ...	1.35	1.09
Total number invalided ...	1	4
Percentage of invalidings to total number resident	0.02	0.07
Total number of deaths ...	4	9
Percentage of deaths to total number resident	0.08	0.17

Deaths :

Concussion	Typhoid
Cancer of liver	Haematemesis
Acute Heart Failure	Tetanus
Gangrene	Liver abscess

Pulmonary T.B.

SECTION IV. HYGIENE AND SANITATION

47. *Zomba*. Since the flood of December, 1946, considerable time and effort has had to be spent on anti-malarial work mainly of a palliative type. Seepages in the boulder-strewn valleys are numerous and owing to lack of cement it has not been possible to make and lay precast inverts. 1,254 yards of stone channelling were constructed without cement. The Mlunguzi stream continued to be the main source of mosquito breeding and its control by any method other than regular spraying with oil would be costly as the boulders cannot be manhandled.

48. *Blantyre*. The Town Council started on its programme of tarmacing the roads. This will abate the dust menace which was becoming acute.

SECTION V. PRISON AND LUNATIC ASYLUM

A. Central Prison

49. The daily average of prisoners in the Central Prison was 426.8 compared with 419.3 in 1947. 215 prisoners were admitted to Hospital and there were five deaths (2 from Pulmonary Tuberculosis and one each from Anaemia, Cellulitis and Ascitis. The main cause of hospitalization was Malaria with 69 cases.

B. Central Lunatic Asylum

50. The daily average in the Central Lunatic Asylum was 150.9 compared with 143.3 in 1947. There were 32 admissions and 27 discharges. During the year 44% of the inmates gained weight, 18% lost weight and no appreciable change in weight occurred in 38%. There were 34 admissions to the hospital with 9 deaths (Bacillary Dysentery 2, Lobar Pneumonia 1, Septic Thrombophlebitis 1 and Cardiac failure 5).

W. H. WATSON

Acting Director of Medical Services

Table Ia. Return of Diseases and Deaths (European in-patients) for the year 1948

Diseases				Remain- ing at the end of 1947	Admissions during 1948	Total cases treated	Deaths	Remain- ing at the end of 1948
1-44. <i>Infectious and parasitic diseases.</i>								
1.	Typhoid fever	...	...	—	1	1	—	1
3.	Typhus fever	...	...	—	3	3	—	—
4.	Relapsing fever	...	...	—	2	2	—	—
13.	Dysentery							
	(a) Amoebic	...	...	—	9	9	—	—
	(b) Bacillary	...	...	—	9	9	—	1
16.	Acute poliomyelitis	...	...	—	1	1	—	—
24-32.	Other tuberculous diseases	...	...	—	1	1	—	—
38.	Malaria :—							
	(b) Subtertian	...	...	—	67	67	1	1
	(c) Quartan	...	...	—	1	1	—	—
	(d) Cachexia	...	...	—	2	2	—	—
	(e) Unclassified	...	...	1	44	45	—	—
42.	Schistosomiasis	...	...	—	1	1	—	—
41-42.	Other helminthic diseases	...	...	—	2	2	—	—
15, 19, 20,	Other infectious and/or parasitic							
36, 43, 44.	diseases	...	...	—	1	1	1	—
45-55.	Cancer and other tumours	...	...			
45-53.	(a) Malignant	...	...	—	5	5	2	—
54.	(b) Non-malignant	...	...	—	4	4	—	—
56-69. <i>Rheumatism, Diseases of Nutrition and Endocrine glands and other general diseases.</i>								
56-57.	Rheumatic conditions	...	...	—	1	1	—	—
59.	Diabetes	...	...	—	2	2	—	—
65-69.	(b) Endocrine glands and general diseases	...	...	—	1	1	—	—
70-74.	Diseases of the blood and blood-forming organs	...	...	—	5	5	—	—
75-77. <i>Chronic Poisoning.</i>								
75-77.	Acute and chronic poisoning	...	...	—	2	2	—	—
82.	Cerebral haemorrhage	...	...	—	3	3	1	—
78-89. <i>Diseases of the Nervous System and Sense Organs.</i>								
78-81.	Other diseases of the nervous							
83-87.	system	...	...	—	5	5	—	—
88.	Other diseases of the eye, and annexa	...	...	—	1	1	—	—
89.	Diseases of the ear and mastoid sinus	...	...	—	6	6	—	—
90-103. <i>Diseases of the Circulatory System</i>								
90- 95.	Heart Diseases	...	...	—	8	8	1	—
96-103.	Other circulatory diseases	...	...	—	13	13	—	—
104-114. <i>Diseases of the Respiratory System.</i>								
106.	Bronchitis	...	...	—	12	12	—	—
107.	Broncho-pneumonia	...	...	—	3	3	—	—
108.	Lobar pneumonia...	...	...	—	3	3	—	—
104-105.	Other diseases of the Respiratory							
110-114.	system	...	...	—	11	11	—	—
115-129. <i>Diseases of the Digestive System</i>								
119-120. Diarrhoea and enteritis :—								
	(a) Under two years of age	...	...	—	1	1	—	—
	(b) Over two years of age	...	...	—	20	20	—	—
Carried forward				1	250	251	6	3

Table Ia. Return of Diseases and Deaths (European in-patients) for the year 1948

Diseases				Remain- ing at the end of 1947	Admissions during 1948	Total cases treated	Deaths	Remain- ing at the end of 1948
<i>Brought forward</i>	...	...		1	250	251	6	3
121. Appendicitis	...	...	...	—	4	4	—	—
122. Hernia, intestinal obstruction	...	...	...	—	5	5	1	—
125-127. Other diseases of the liver and biliary passage	...	...	...	—	8	8	—	—
115-118. Other diseases of the Digestive 123-128, System	...	...	...	—	80	80	—	2
129	...	...	...	—	80	80	—	2
130-139. <i>Non-Venereal diseases of the Genito- Urinary System.</i>								
130-132. Nephritis (all forms)—								
(a) Acute	...	...	...	—	1	1	—	—
(b) Chronic	...	...	...	—	1	1	—	—
133-139. Other non-venereal diseases of the Genito-Urinary system	...	...	...	2	33	35	—	—
140-150. <i>Diseases of Pregnancy, Child-birth and the puerperal state.</i>								
140-142. Abortion	...	...	...	—	18	18	—	—
145-147. Other toxæmias of pregnancy	...	...	...	—	1	1	—	—
143, 144. Other conditions of the puerperal 148-150. state	...	...	...	8	84	92	—	—
151-156. <i>Diseases of the Skin, Cellular Tissue, Bones and Organs of Locomotion.</i>								
151-156. Diseases of the Skin, Cellular tissue, Bones and Organs of Locomotion	...	...	...	4	59	63	—	—
163-198. <i>External Causes.</i>								
172-198. Other forms of violence	...	...	...	—	29	29	—	2
199-200. <i>Ill-defined diseases</i>	...	...	...	2	61	63	—	—
TOTALS	...	...	...	17	634	651	7	7

Table Ib. Return of Diseases and Deaths (Native In-patients) for the year 1948 (including Asiatics, Native Officials, K.A.R. Native Ranks, Native General Population, Asiatic and Native Convicts)

Diseases				Remaining at the end of 1947	Admissions during 1948	Total cases treated	Deaths	Remaining at the end of 1948
1-44. <i>Infectious and Parasitic Diseases</i>								
1-2. Enteric Group :—								
	(a)	Typhoid Fever	...	1	18	19	3	1
	(b)	Type undefined	...	—	1	1	—	—
3.		Typhus Fever	...	1	1	2	—	—
4.		Relapsing Fever	...	1	183	184	3	4
6.		Smallpox	...	7	83	90	12	4
7.		Measles	...	1	37	38	—	—
9.		Whooping Cough	...	3	142	145	3	4
10.		Diphtheria	...	—	6	6	1	1
11.		Influenza	...	—	18	18	1	—
13. Dysentery :—								
	(a)	Amoebic	...	4	80	84	—	7
	(b)	Bacillary	...	—	40	40	3	—
	(c)	Unclassified	...	1	29	30	2	—
16.		Acute Poliomyelitis	...	—	9	9	—	1
18.		Cerebro-spinal Fever	...	—	13	13	8	—
21.		Rabies	...	—	1	1	1	—
22.		Tetanus	...	—	23	23	6	1
23-32. <i>Tuberculosis all forms</i>								
23.		Tuberculosis of the Respiratory system	...	11	205	216	35	12
24-32.		Other Tuberculous diseases	...	5	85	90	9	8
33.		Leprosy	...	2	103	105	2	12
34-35. Venereal diseases :—								
	(a)	Syphilis	...	92	2,237	2,329	18	129
	(b)	Gonorrhoea	...	15	704	719	—	21
	(c)	Other venereal diseases	...	3	24	27	1	1
38. Malaria :—								
	(a)	Benign Tertian	...	1	235	236	1	3
	(b)	Sub-tertian	...	33	1,461	1,494	30	47
	(c)	Quartan	...	—	73	73	—	—
	(d)	Cachexia	...	2	57	59	1	1
	(e)	Unclassified	...	42	1,514	1,556	16	42
44-6a.		Blackwater Fever	...	—	7	7	2	—
39.		Trypanosomiasis	...	—	10	10	2	1
		Yaws	...	7	134	141	—	6
40.		Ankylostomiasis	...	55	2,163	2,218	5	58
42.		Schistosomiasis	...	31	1,271	1,302	3	46
41-42.		Other Helminthic diseases	...	5	231	236	—	2
15-19.		Other infectious and/or parasitic diseases	...	4	156	160	1	4
43-44.								
45-55. <i>Cancer and other tumours</i>								
	(a)	Malignant	...	3	96	99	19	8
	(b)	Non-malignant	...	2	145	147	—	2
	(c)	Undetermined	...	—	3	3	—	—
Carried forward				332	11,598	11,930	188	426

Table Ib. Return of Diseases and Deaths (Native In-patients) for the year 1948 (including Asiatics, Native Officials, K.A.R. Native Ranks, Native General Population, Asiatic and Native Convicts)

Diseases				Remaining at the end of 1947	Admissions during 1948	Total cases treated	Deaths	Remaining at the end of 1948
<i>Brought forward</i> ...				332	11,598	11,930	188	426
56-69. <i>Rheumatism, Diseases of Nutrition and Endocrine Glands and other general diseases</i>								
56-57.	Rheumatic conditions	...		9	238	277	1	11
59.	Diabetes	...	...	—	13	13	—	—
60.	Scurvy	...	...	—	8	8	2	1
61.	Beri-beri	...	...	—	7	7	1	—
62.	Pellagra	...	...	2	14	16	1	2
63-69. Other diseases								
	(a) Nutritional	...	...	—	12	12	1	—
	(b) Endocrine glands and general	...	...	6	27	33	2	—
70-74. <i>Diseases of the Blood and Blood-forming organs</i> ...				6	128	134	15	7
75-77. <i>Acute and chronic Poisoning</i> ...				—	6	6	—	—
78-89. <i>Diseases of the Nervous System and Sense Organs</i>								
82.	Cerebral haemorrhage	...	...	4	86	90	9	5
78, 81, 83-87. Other diseases of the nervous system ...				7	179	186	6	6
88.	Trachoma	...	...	—	9	9	1	—
88.	Other diseases of the eye and annexa	...	...	26	817	843	—	23
89.	Diseases of the ear and mastoid sinus	...	...	1	130	131	5	4
90-103. <i>Diseases of the Circulatory System</i>								
90-95.	(a) Heart diseases	...	...	5	71	76	20	2
96-103.	(b) Other Circulatory diseases			1	159	160	4	9
104-114. <i>Diseases of the Respiratory System.</i>								
106.	Bronchitis	...	...	22	652	674	2	13
107-109. Pneumonia :—								
	(a) Broncho-pneumonia	...	...	1	177	178	41	3
	(b) Lobar pneumonia	...	...	6	438	444	30	10
	(c) Otherwise defined	...	...	3	34	37	4	—
104-105. Other diseases of the Respiratory System ...				8	290	298	4	4
115-129. <i>Diseases of the Digestive System</i>								
119-120. Diarrhoea and Enteritis								
	(a) Under 2 years of age	...	...	3	75	78	2	—
	(b) Over 2 years of age	...	...	6	86	92	7	2
121.	Appendicitis	...	...	1	26	27	1	2
122.	Hernia, Intestinal Obstruction			7	143	150	18	7
124.	Cirrhosis of the liver	...	...	2	25	27	5	2
125-127. Other diseases of the liver and biliary passage ...				8	90	98	8	2
115, 118, 123, 128, 129. Other diseases of the Digestive System ...				16	607	623	21	10
130-139. <i>Non-Venereal Diseases of the Génito-Urinary System.</i>								
130-132. Nephritis (all forms) :—								
	(a) Acute	...	...	—	13	13	2	—
	(b) Chronic	...	...	—	6	6	—	1
	(c) Unclassified	...	...	—	20	20	5	—
133-139. Other non-venereal diseases of the Genito-Urinary System ...				20	653	673	4	28
<i>Carried forward</i> ...				502	16,867	17,369	410	580

Table Ib. Return of Diseases and Deaths (Native In-patients) for the year 1948 (including Asiatics, Native Officials, K.A.R. Native Ranks, Native General Population, Asiatic and Native Convicts)

Diseases				Remaining at the end of 1947	Admissions during 1948	Total cases treated	Deaths	Remaining at the end of 1948
<i>Brought forward</i>				502	16,867	17,369	410	580
140-150. <i>Diseases of Pregnancy, Child- birth and the Puerperal state</i>								
140, 141-								
142. (a) Abortion				1	128	129	1	2
(b) Ectopic gestation				—	2	2	1	1
145-147. (c) Toxaemias of pregnancy ...				—	26	26	—	—
143-144, (d) Other conditions of the Puer- 148-150. peral state				32	1,363	1,395	15	30
151-156. <i>Diseases of the Skin, Cellular Tissues, Bones and Organs of Locomotion</i>				234	5,798	6,032	28	220
157-161. <i>Congenital Malformations and diseases of early infancy</i>								
157. (a) Other Congenital Malforma- tions				—	6	6	—	—
(b) Congenital Debility (children under one year)				2	8	10	1	—
(c) Premature birth				—	19	19	2	—
(d) Injury at birth				1	2	3	—	—
(e) Other diseases peculiar to early infancy				—	6	6	—	—
162. Senility				2	13	15	—	—
163-198. <i>External Causes</i>								
163-171. (a) Suicide				—	2	2	—	—
172-198. (b) Other forms of violence ...				120	3,123	3,243	59	147
199-200. <i>Ill-defined Diseases</i>				31	1,171	1,202	17	39
TOTAL ...				925	28,534	29,459	534	1,019

Table IIa. Return of Diseases (European Out-patients) for the year 1948

<i>Diseases</i>	<i>Males</i>	<i>Females</i>	<i>Diseases</i>	<i>Males</i>	<i>Females</i>
1-44. <i>Infectious and Parasitic diseases.</i>			Brought forward	384	288
1-2. Enteric Group :—			96-103. (b) Other circulatory diseases ...	22	33
1. Typhoid fever ...	1	—	104-114. <i>Diseases of the Respiratory System.</i>		
3. Typhus fever ...	2	2	106. Bronchitis ...	26	15
4. Relapsing fever ...	1	1	107-109. Pneumonia.		
7. Measles ...	5	—	107. (a) Broncho-pneumonia	—	3
10. Diphtheria ...	—	1	(b) Lobar-pneumonia	4	—
11. Influenza ...	—	2	(c) Otherwise defined	3	—
13. Dysentery :—			104-105,		
(a) Amoebic ...	5	6	110-114. Other diseases of the respiratory System ...	115	83
(b) Bacillary ...	6	5	115-129. <i>Diseases of the Digestive System.</i>		
(c) Unclassified ...	1	—	119-120. Diarrhoea and enteritis—		
23-32. Tuberculosis all forms :—			(a) Under 2 years of age ...	18	15
24-32. Other tuberculosis diseases ...	2	—	(b) Over 2 years of age ...	44	58
34-35. Venereal diseases ...			121. Appendicitis ...	3	2
(b) Gonorrhea ...	1	—	122. Hernia, intestinal obstruction ...	12	2
38. Malaria :—			125-127. Other diseases of the Liver and biliary passage ...	6	4
(a) Benign tertian	4	—	115, 118,		
(b) Subtertian ...	59	27	123, 128, Other diseases of the		
(c) Quartan ...	1	1	129. digestive system ...	174	169
(d) Cachexia ...	6	1	130-139. <i>Non-venereal Diseases of the Genito-Urinary System.</i>		
(e) Unclassified ...	71	53	130-132. Nephritis (all forms) :—		
40. Ankylostomiasis ...	—	1	130. (a) Acute ...	1	1
42. Schistosomiasis ...	2	—	131. (b) Chronic ...	—	1
41-42. Other Helminthic diseases ...	4	7	133-139. Other non-venereal diseases of the genito-urinary System	32	114
15, 19, 20,			140-150. <i>Diseases of Pregnancy, Childbirth and the Puerperal State.</i>		
36, 43, 44. Other infectious and/or parasitic diseases ...	12	17	140-141, 142 (a) Abortion ...	—	22
45-55. <i>Cancer and other Tumours.</i>			145-147 (c) Toxaemias of pregnancy ...	—	1
(a) Malignant ...	5	2	143, 144,		
(b) Non-Malignant...	14	15	148, 150. Other conditions of puerperal state ...	—	89
(c) Undetermined ...	—	1	151-156. <i>Diseases of the Skin, Cellular Tissues, Bones and Organs of Locomotion</i> ...	305	240
56-69. <i>Rheumatism, Diseases of Nutrition and Endocrine Glands and other general diseases.</i>			157-161. <i>Congenital malformations and Diseases of Early Infancy.</i> ...	7	2
56-57. Rheumatic conditions	13	7	162. Senility ...	1	—
59. Diabetes ...	1	3	163-198. <i>External Causes.</i>		
65-69. Other Diseases.			172-198. Other forms of violence ...	182	90
(b) Endocrine Glands and general ...	1	8	199-200. <i>Ill-defined diseases</i>	141	141
70-74. <i>Diseases of the Blood and Blood Forming Organs</i> ...	6	39		1,480	1,373
75-77. <i>Acute and chronic Poisoning</i> ...	2	—			
78-89. <i>Diseases of the Nervous System and Sense Organs.</i>					
82. Cerebral haemorrhage	3	—			
78-81, Other diseases of the					
83-87 nervous System ...	13	7			
88. Other diseases of the eye and annexa ...	41	30			
89. Diseases of the ear and mastoid sinus ...	90	42			
90-103. <i>Diseases of the Circulatory System.</i>					
90-95. (a) Heart diseases	12	10			
Carried forward ...	384	288			

Table IIb. Return of Diseases and Deaths (Native Out-patients) for the year 1948. (Including Asiatics, Native Officials, K.A.R., Native Ranks, and Native Convicts)

Diseases			Diseases		
Males Females			Males Females		
1-44. Infectious and parasitic Diseases.			Brought forward ... 33,613 18,671		
1-2. Enteric Group :—			45-55. Cancer and other Tu-mours.		
1. Typhoid Fever ...	12	6	(a) Malignant ...	62	51
2. (c) Type undefined ...	1	—	(b) Non-malignant ...	163	92
3. Typhus Fever ...	1	1	(c) Undetermined ...	7	3
4. Relapsing Fever ...	259	129	56-69. Rheumatism, Diseases of Nutrition and En-docrine Glands and other general diseases.		
6. Smallpox ...	64	29	56-57. Rheumatic conditions 2,833 1,907		
7. Measles ...	42	31	59. Diabetes ...	11	2
9. Whooping cough ...	337	284	60. Scurvy ...	4	6
10. Diphtheria ...	1	5	61. Beri-beri ...	5	3
11. Influenza ...	67	22	62. Pellagra ...	43	12
13. Dysentery—			58-63-64. Other diseases—		
(a) Amoebic ...	92	49	(a) Nutritional ...	16	6
(b) Bacillary ...	56	15	(b) Endocrine glands and general ...	29	23
(c) Unclassified ...	125	40	70-74. Diseases of the Blood and Blood-forming Or-gans ... 169 146		
16. Acute Poliomyelitis ...	4	7	75-77. Acute and chronic Poisoning ... 5 2		
18. Cerebrospinal fever ...	12	1	78-89. Diseases of the Nervous System and Sense Or-gans.		
21. Rabies ...	1	—	82. Cerebral haemorrhage	89	18
22. Tetanus ...	10	8	78, 81, Other diseases of the		
23-32. Tuberculosis all forms :—			83, 87. nervous System ... 1,940 519		
23. Tuberculosis of the Res- piratory System ...	171	80	88. Trachoma ...	21	15
24-32. Other tuberculous di- seases ... 76 39			88. Other diseases of the eye and annexa ... 7,734 6,529		
33. Leprosy ...	167	36	89. Diseases of the ear mastoid sinus ... 3,519 1,873		
34-35. Venereal Diseases :—			90-103. Diseases of the Cir- culatory System ...		
(a) Syphilis ...	2,933	2,292	90-95. (a) Heart diseases	91	35
(b) Gonorrhea ...	1,306	507	96-103. (b) Other circula- tory diseases ...	379	145
(c) Other venereal di- seases ...	29	6	104-114. Diseases of the Res- piratory System ...		
38. Malaria.			106. Bronchitis ... 13,846 7,918		
(a) Benign tertian ...	809	521	107-109. Pneumonia :—		
(b) Subtertian ...	3,347	2,072	(a) Broncho-pneumonia	123	87
(c) Quartan ...	378	124	(b) Lobar pneumonia ...	371	106
(d) Cachexia ...	347	427	(c) Otherwise defined ...	55	17
(e) Unclassified ...	10,659	6,443	104, 105,		
44-6a. Blackwater fever ... 3 4			110-114. Other diseases of the Respiratory Sy- stem ... 10,576 5,305		
39. Trypanosomiasis ...	9	1	115-129. Diseases of the Di- gestive System ...		
Yaws ...	184	151	119-120. Diarrhoea En- teritis :—		
40. Ankylostomiasis ...	4,825	2,372	(a) Under 2 years of age	998	758
42. Schistosomiasis ...	5,709	1,857	(b) Over 2 years of age	1,314	618
41-42. Other Helminthic di- seases ... 759 508					
15, 19, 20, Other infectious and/ or parasitic Diseases					
36, 43, 44.	818	604			
Carried forward ...	33,613	18,671	78,016 44,867		

Table IIb. Return of Diseases and Deaths (Native Out-patients) for the year 1948. (Including Asiatics, Native Officials, K.A.R., Native Ranks, and Native Convicts)

<i>Diseases</i>			<i>Diseases</i>		
	<i>Males</i>	<i>Females</i>		<i>Males</i>	<i>Females</i>
<i>Brought forward</i> ...	78,016	44,867		97,670	56,041
121. Appendicitis ...	18	8	145-147. (c) Toxaemias of pregnancy ...	—	30
122. Hernia, Intestinal Obstruction ...	158	8	143, 144, 148-150. (d) Other diseases of the puerperal state ...	—	1,492
124. Cirrhosis of the Liver	24	4			
125-127. Other diseases of the liver and biliary passage ...	107	47	151-156. <i>Diseases of the Skin, Cellular Tissues, Bones and Organs of Locomotion</i> ...	58,103	21,472
115, 118, 123, 128-129. Other diseases of the Digestive System ...	18,588	10,215	157-161. <i>Congenital Malformations and diseases of early infancy.</i>		
130-139. <i>Non-Venereal Diseases of the Genito-Urinary System.</i>			157-161. (a) Other congenital malformations ...	5	3
130-132. Nephritis (all forms):—			(b) Congenital debility (children under 1 year)	8	10
(a) Acute ...	10	8	(c) Premature birth (children under 1 year) ...	1	18
(b) Chronic ...	6	7	(d) Injury at birth (under 1 year) ...	1	1
(c) Unclassified ...	9	11	(e) Other diseases peculiar to early infancy ...	7	3
133-139. Other non-venereal diseases of the Genito-Urinary System ...	734	718	162. <i>Senility</i> ...	23	—
140-150. <i>Diseases of Pregnancy, Childbirth and the Puerperal state.</i>			163-198. <i>External Causes</i> ...		
140, 141-142. (a) Abortion ...	—	146	163-171. (a) Suicide ...	2	—
(b) Ectopic Gestation ...	—	2	172-198. (b) Other forms of violence ...	30,109	7,509
			199-200. Ill-defined diseases	7,199	3,438
			GRAND TOTAL ...	193,128	90,017
	97,670	56,041			

